

## Author Index

- Acevedo, S., 145  
Airoldi, C., 45, 109  
Aizpurua, I., 59  
Amalvy, J.I., 59
- Barandiaran, M.J., 59  
Barbier, F., 153  
Biggs, S., 203  
Bijsterbosch, H.D., 79  
Blaser, S., 215  
Bohr, J., 33  
Boschkova, K., 67
- Caetano, M., 145  
Cao, F., 27  
Castillo, J., 145  
Cestari, A.R., 109  
Chakravarti, A.K., 7  
Chantrapornchai, W., 123  
Chauhan, M.S., 51  
Chauhan, S., 51  
Chibowski, E., 187  
Chowdhury, S.B., 7  
Clydesdale, F.M., 123  
Cócera, M., 91  
Cohen Stuart, M.A., 79  
Czapkiewicz, J., 161
- de Keizer, A., 171  
de Laat, A.W.M., 79  
de la Maza, A., 91  
del Castillo, J.L., 161  
Duc, G., 153
- Elvesjö, J., 67  
Espinola, J.G.P., 45  
Esumi, K., 115
- Fernández, A., 145  
Fleer, G.J., 79
- García, C., 145
- Goncalvez, S., 145  
González Pérez, A., 161  
Guinea, J., 91  
Gun'ko, V.M., 187  
Guzenko, N.V., 187
- Hatta, I., 1  
Hibino, M., 1  
Holt, S., 203  
Hou, Z., 243
- Iveson, S.M., 203  
Iyer, R.S., 133
- Kallay, M.J.N., 225  
Khomutov, G.B., 33  
Koide, Y., 115  
Koopal, L.K., 171  
Kovačević, D., 225  
Kronberg, B., 67  
Kumar, A., 51  
Kumar, G., 51
- Leak, D.J., 177  
Leboda, R., 187  
Lemus, W.E.S., 45  
Li, J.B., 235  
Lin, C.-F., 251  
Li, Z., 243  
López, O., 91  
Lo, S.-L., 251
- McClements, D.J., 123  
Miller, R., 235  
Miyazaki, M., 115  
Moreira, J.C.A., 45  
Mukherjee, D.C., 7
- Narres, H.-D., 225  
Nechev, G., 1
- Oliveira, S.F., 45
- Özbaş, G., 225
- Pakhlov, E.M., 187  
Parra, J.L., 91  
Petit-Ramel, M., 153  
Pohlmeier, A., 225  
Polyakov, S.N., 33  
Prichanont, S., 177  
Protsenko, P., 261
- Ranaudo, M.A., 145  
Rodríguez, J.R., 161  
Rossen, W.R., 101
- Saika, R., 115  
Siegel, S., 235  
Simoni, J.A., 109  
Skvortsova, Z., 261  
Souza, A.G., 45  
Stanmore, B.R., 133  
Struijk, C.W., 79  
Stuckey, D.C., 177
- Tang, H., 27  
Tishin, A.M., 33  
Torigoe, K., 115  
Traskine, V., 261  
Turov, V.V., 187
- Vieira, E.F.S., 109  
Vollhardt, D., 235  
Volovitch, P., 261  
Voronin, E.F., 187
- Wang, D., 27  
Wang, H., 243  
Wells, J.D., 171  
Wines, T.H., 269  
Wu, C.-H., 251  
Wu, J., 235
- Zarko, V.I., 187  
Zhao, J., 235



## Subject Index

- Acidic sites, 109
- Adsorption, 79, 109, 145, 153, 225
- Aggregation, 145
- Asphaltenes, 145
- Atomic force microscopy, 1
- Biotransformation, 177
- Boundary lubrication, 67
- Break-up, contraction flow, 215
- Bubbles, 101
- Calorimetry, 109
- Capillary pressure, 203
- Cationic surfactant, 115
- Cell encapsulation, 177
- Chiral epoxide, 177
- Chromate, 251
- Cloud point, 79
- Coagulation, 27
- Co<sup>II</sup> chlorides, 45
- Color, 123
- Competitive adsorption, 251
- Conductivity, 161
- Contact angle measurement, 203
- Copper(II) separation, 7
- Cu<sup>II</sup> chlorides, 45
- Decylbenzyltrimethylammonium chloride, 161
- Defects, 1
- Dense slurries, 133
- Density, 161
- Diffuse double layer, 133
- β-diketonates, 45
- Distortion, 133
- Dodecyl dimethyl phosphine oxide, 235
- Effective molar ratio of surfactant to phospholipid in bilayers, 91
- Electrical interfacial layer, 225
- Electrokinetics, 225
- Electrophoretic mobility, 79
- Emulsion, 123
- Ethylamine, 109
- Exopolymer of glycoproteinaceous character, 91
- Flocs, 215
- Flow properties, 133
- Fluorescence spectra, 115
- Fly ashes, 133
- Foam, 101
- Foam generation, 101
- Friction, 67
- Fumed silica, 187
- Gadolinium, 33
- Gemini-surfactant, 115
- Goethite, 225
- Grain boundary wetting, 261
- Heavy metals, 153
- <sup>1</sup>H NMR of unfrozen water, 187
- Hydrodynamic radius, 115
- Inorganic polymer flocculant, 27
- Interaction, 243
- Interfacial energy, 261
- Ion exchange, 153
- Ionic surfactants, 51
- Iron ore, 203
- Kinetics, 145
- Lamellar, 67
- Lamellar liquid crystal, 67
- Langmuir–Blodgett films, 1, 33
- Lattice structure, 1
- Lead, 225
- Light scattering, 123
- Lyotropic, 67
- Methacryloyloxymethylenemethyl diethoxysilane, 187
- 3-Methacryloyloxypropyltrimethoxysilane, 187

- Micellization, 51, 161  
Miniemulsion polymerization, 59  
Modified silica, 187  
Molybdate, 251  
Monolayers, 33  
Montmorillonite, 153  
Multiple emulsion process, 7
- New antarctica bacterial species *Pseudoalteromonas antarctica* NF<sub>3</sub>, 91  
Nonionic surfactant Triton X-100, 91
- Organic solvents, 51
- Particle size distribution, 27, 187  
PCS, 27  
Penetration, 235  
Percolation, 261  
Phosphatidylcholine liposomes, 91  
Phospholipid monolayers, 235  
Poly(amidoamine)dendrimer, 115  
Polycrystals, 261  
Polymeric hydrophobe, 59  
Polyvinylmethylether, 79  
Poly(vinylmethylether)-block-poly(vinyloxy-4-butyric acid), 79  
Porosity, 171  
Porous media, 101  
Powders, 203
- Rehbinder effect, 261  
Rupture forces, 215
- Selenate, 251  
Selenite, 251  
Silica gel, 109  
SiO<sub>2</sub>, 79  
Snap-off, 101  
Sodium dodecyl sulfonate, 243  
Solubilization of liposomes, 91  
Spectral reflectance, 123  
Static light-scattering variations of liposomes, 91  
Stober silica, 171  
Sulfate, 251  
Surface charge, 171  
Surface complexation., 153  
Surface tension, 115  
Surfactant partition coefficient, 91  
Swirling flow, 215
- Temperature dependence, 161  
Tetraalkylammonium ions, 171  
Theoretical modelling of solvation, 187  
Titanium dioxide, 123  
Titration, 171  
TLM, 251  
Triton-114, 243  
Triton X-100, 243  
Two-dimensional solids, 1
- Vinyl acetate, 59
- Waste waters, 7  
Water in oil microemulsion, 177
- Zeta potential, 187